

CLAIMS:

1. (Currently amended) A method of promoting new neuron growth comprising the step of:

administering a therapeutic amount of a nitric oxide donor compound selected from the group consisting essentially of DETANONOate, PAPANONOate, S-nitroso-N-acetylpenicillamine, sodium nitroprusside, sodium nitroglycerine, phosphodiesterase inhibitors and L-arginine to a patient in need of neuron growth promotion post stroke.

2. (Currently amended) A compound for promoting new neuron growth comprising an effective amount of a nitric oxide donor sufficient to promote neurogenesis.

3. (Currently amended) A neurogenesis promoter comprising a nitric oxide donor capable of promoting new neuron growth in a pharmaceutically acceptable carrier.

4. (Original) The neurogenesis promoter according to claim 3, wherein said nitric oxide donor augments nitric oxide in a tissue.

5. (Currently amended) The neurogenesis promoter according to claim 4,

wherein said nitric oxide donor is selected from the group consisting essentially of phosphodiesterase inhibitors and L-arginine.

6. (Currently amended) A method of augmenting the production of neurons by administering an effective amount of a nitric oxide donor selected from the group consisting essentially of DETANONOate, PAPANONOate, S-nitroso-N-acetylpenicillamine, sodium nitroprusside, sodium nitroglycerine, phosphodiesterase inhibitors and L-arginine to a site in need of augmentation.

7. (Currently amended) A method of increasing neurological function via new neuron growth by administering an effective amount of a nitric oxide donor selected from the group consisting essentially of DETANONOate, PAPANONOate, S-nitroso-N-acetylpenicillamine, sodium nitroprusside, sodium nitroglycerine, phosphodiesterase inhibitors and L-arginine to promote neuron growth to a patient in need of increased neurological function after neurological damage has occurred to produce neuron growth.

8. (Currently amended) A method of increasing cognitive and neurological function via new neuron growth by administering an effective amount of a nitric oxide donor compound selected from the group consisting essentially of DETANONOate, PAPANONOate, S-nitroso-N-acetylpenicillamine, sodium nitroprusside, sodium

nitroglycerine, phosphodiesterase inhibitors and L-arginine to promote neuron growth to a patient in need of increased cognitive and neurological function after neurological and cognitive damage has occurred to produce neuron growth.